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To: Mr. J. E. Wickham ✓ **Date:** February 26, 1990

From: Deborah R. Watson

Subject: FTC vs. ISO Tobacco Weights for Monitor 25 and I#13

An experiment was conducted to determine if there are differences in tobacco weights for cigarettes equilibrated for 48 hours in both FTC conditions (75°F ± 1°, 60% RH ± 2%) and ISO conditions (71.5°F ± 1°, 60% RH ± 2%). Monitor #25 and Industry Monitor #13 obtained from FTR (Switzerland) were tested. Both samples were also tested directly out of the can.

Samples equilibrated in 75°F/60% R.H. averaged 5 mg higher in tobacco weight than samples equilibrated in 71.5°F/60% R.H. The O.V. values of the 75°F/60% R.H. samples averaged 0.7% higher than the O.V. values of the 71.5°F/60% R.H. samples. Tobacco weights are normally corrected to 12.5% O.V. When these samples were corrected for O.V., there were no differences in tobacco weights between the laboratories. No tobacco weight differences were observed between the CTSD and FTR method of measuring tobacco weight. Table I contains these results.

FTR performs the tobacco weight analysis by weighing a tray of 100 cigarettes. Ten of these cigarettes are ripped, and the filters and cigarette papers are weighed. The tobacco weight is calculated by dividing the total cigarette weight by 100 and subtracting the average filter/paper weight.

Cigarette Testing Services rips thirty cigarettes and only the tobacco is weighed. This weight is divided by thirty. Quality Assurance weighs five sets of 15 cigarettes for an average cigarette weight. Ten filters and cigarette papers are weighed and the difference is calculated.

DRW:rad

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Attachment

Source: https://www.industrydocuments.ucsf.edu/docs/zzyk0001

Table I

Conditions	Method	Monitor #25			IM#13		
		Tobacco Weight, g	Corrected Tobacco Weight, g (12.5% OV)	O.V., %	Tobacco Weight, g	Corrected Tobacco Weight, g (12.5% OV)	O.V., %
Tested out of Can	CTSD[1]	0.751			0.820		
		0.753			0.820		
		0.754			0.820		
		0.753	0.739	14.1	0.820	0.803	14.3
	FTR[2]	0.754	0.740		0.822	0.805	
75°F/60% RH (FTC)	CTSD[1]	0.751			0.817		
		0.752			0.816		
		0.746			0.816		
		0.750	0.740	13.7	0.817	0.802	14.1
	FTR[2]	0.752	0.742		0.821	0.806	
71.5°F/60% RH (ISO)	CTSD[1]	0.748			0.814		
		0.744			0.813		
		0.741			0.814		
		0.744	0.740	12.9	0.814	0.805	13.5
	FTR[2]	0.745	0.742		0.815	0.806	

[1]CTSD = 3 replicates of 30 cigarettes each.
[2]FTR = 1 replicate of 100 cigarettes.

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